

Trends in the Development of the Chemistry  
of Organophosphorous Compounds, by B. A.  
Arbuzov.

RUSSIAN, rpt, Khimiya i Primenenie Fosforor-  
ganicheskikh Soedineniy, <sup>YE</sup> ~~1952~~ 1952, pp 5-23.

26 Nov - 1 Dec

ATS RJ-3984

Sci-Chem  
Dec 63

244,918

Diethyl 2-Cyclohexanonylphosphonate and its  
Tautomerism, by V. S. Vinogradova, N. A.  
Polezhayeva.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh ~~Soedineniy~~, ~~1959~~  
1959, pp 99-104.    28 Nov - 1 Dec

ATS RJ-3991

Sci-Chem  
Dec 63

244, 919

Replacement of the ~~PA~~ P=O Group by P=S in  
Organophosphorous Compounds, by N. N. God-  
ovikov.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, ~~26 DEC~~ 1959,  
pp 130-132.                    26 Nov - 1 Dec

ATS RJ-3994

Sci-Chem  
Dec 63

244,920

Reactions of ~~Alkyl~~ Alkyl Phosphites and Esters  
of Hydroxymethylphosphonic Acid With Dialkyl-  
thiocarbonyl Chlorides and Aryl Isothiocy-  
anites, by M. S. Malinovskiy, V. V. Alekseyev.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, ~~1958~~ 1959, pp 136-  
143. *28 Nov - 1 Dec*

ATS RJ-3995

Sci-Chem  
Dec 63

*244,921*

The Reaction of Dialkyl Phosphonates with  
Quinones, by M. G. Voronkov.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, ~~1959~~ 1959,  
pp 203-206.                    26 Nov - 1 Dec

ATS RJ-3998

Sci-Chem  
Dec 63

244,922

Reaction of Esters of Phosphorous Acid with  
Trichloroacetyl Chloride, by L. Z. Soborov-  
skiy.

PRIMENENIYE FosFOR-  
RUSSIAN, rpt, Khimiya i ~~Primeneniye FosFOR-~~  
organicheskiikh Soedineniy, ~~1959~~ 1959,  
pp 232-236.      NOV 26 - DEC 1

ATS RJ-3999

Sci-Chem  
Dec 63

244.911

Reaction of Phosphorus Pentachloride with  
Enol Acetates, by I. F. Lutsenko, M. Kiri-  
lov.

RUSSIAN, RPT, Khimiya i Primeneniya Enofor-  
organicheskikh Soedineniy, ~~23 Dec~~ 1959,  
pp 237-241.    26 Nov-1 Dec

ATS RJ-4000

Sci-Chem  
Dec 63

244,912

Synthesis of Some Bifunctional Compounds Con-  
taining Phosphorous, by B. A. Arbuzov.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, ~~1958~~ 1959,  
pp 272-278.                      26 Nov - 1 Dec

ATS RJ-4003

Sci- Chem  
Dec 63

244,913

Synthesis and Applications of Organophosphorous Compounds in the Plastics Industry,  
P. A. Moshkin.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfororganicheskikh Soedineniy, ~~1959~~ 1959,  
pp 279-284.                      26 Nov - 1 Dec

ATS RJ-4004

Sci-Chem  
Dec 63

244,914

Phosphorous-containing Polyester XXXX and  
Polyamide Resins, by K. A. Petrov.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, ~~26-28~~ Dec 1959,  
pp 285-291.                      Nov 26-Dr 1

ATS RJ-4005

Sci-Chem  
Dec 63

244,907

Substituted Organophosphorous Compounds as  
Monomers for High Polymers, by E. V. Kuznetsov.

~~XXXXXXXX~~

RUSSIAN, rpt, Khimiya i Primeneniya Fosfor-  
organicheskikh Soedineniy, ~~1959~~ 1959,  
pp 296-304.      Nov 26 - DEC 1

ATS ERJ-4007

Sci-Chem  
Dec 63

244,908

Synthesis Based on Phosphine, by E. V. Kuznetsov.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, ~~1959~~ 1959,  
pp 324-328.      Nov 26 - Dec 31

ATS RJ-4010

Sci-Chem  
Dec 63

244,909

Toxicity and Some Toxicodynamic Problems of  
new Organophosphorous Insecticides, by Yu.  
S. Kagan.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, ~~October~~ 1959,  
pp 458-462.

Nov 26 - Dec 1

ATS RJ-4Q13

Sci-Chem  
Dec 63

244,910

Absorption of Organophosphorus Insecticide  
Vapors by Activated Carbon, by Yu. I. Kun-  
diyev, M. E. Podlinyayeva.

RUSSIAN, rpt, Khimiya i Primeneniye Fosfor-  
organicheskikh Soedineniy, 26-Dec-1959,  
pp 625-627.

ATS RJ-4015

Sci-Chem  
Dec 63

244,903

The Chemistry and Application of Organophosphorus  
Compounds, by A. Ye. Artusov, ~~EEI~~ editor, 1154 pp.

RUSSIAN, bk, Khimiya i Primeneniye Fosfororganiki-  
cheskikh Soedineniy, 1962, pp 1-632.

JPRS 15432

Sci - Chem  
Oct 62

212,464

Mastryukova, T. A.  
TAUTOMERISM AND STRUCTURE OF THIO ACIDS  
OF PHOSPHORUS. APPLICATION OF THE HAMMETT  
EQUATION TO THE THEORY OF TAUTOMERIC  
EQUILIBRIUM. [1962] 10p.  
Order from ATS \$11.50

ATS-03P66R

Trans. of mono. Khim[iya] i Primenenie Fosfororgan-  
[icheskikh] Soedinenii (Akad. Nauk SSSR, Kazansk.  
Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 57-64.

A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62  
[1160]p.

DESCRIPTORS: \*Phosphorus compounds, \*Thio radicals,  
\*Acids, \*Stereochemistry, Molecular isomerism, Molec-  
ular structure, Reaction kinetics, Theory, Equations.

(Chemistry--Physical, TT, v. 9, no. 5)

63-12456

1. Title: Hammett equation
2. Title: Tautomerism
1. Mastryukova, T. A.
- II. ATS-03P66R
- III. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3986

Office of Technical Services

Gilyarov, V. A.  
TAUTOMERISM OF SOME IMIDES OF PHOSPHORUS  
ACIDS. [1962] 9p.  
Order from ATS \$10.75

ATS-78P63R

Trans. of mono. Khimiya i Primenenie Fosfororganicheskikh Soedinenii (Akad. Nauk SSSR, Kazansk. Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962, p. 75-83. A complete trans. of mono. is available from OTS or SLA \$38.50 as 62-33349. JPRS-15432, 25 Sep 62 [1160]p.

DESCRIPTORS: \*Phosphorus acids, Imides, Molecular isomerism.

(Chemistry--Organic, TT, v. 9, no. 7)

63-12637

- I. Gilyarov, V. A.
- II. ATS-78P63R
- III. Associated Technical Services, Inc., East Orange, N. J.

ATS NJ-3984

Office of Technical Services

63-12472

Shipov, A. E.  
PREPARATION AND PROPERTIES OF DIALKYLPHOS-  
PHINODITHIOIC ACIDS. [1962] 5p.  
Order from ATS \$6.00

ATS-79P63R

Trans. of mono. Khim[itya] i Primenenie Fosfororgan-  
[icheskikh] Soedin[enii] (Akad. Nauk SSSR, Kazansk.  
Fitil, tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 84-87.

DESCRIPTORS: \*Phosphines, Alkyl radicals, \*Thio  
radicals, Acids, Preparation, Chemical properties.

(Chemistry--Organic, TT, v. 9, no. 5)

- I. Shipov, A. E.
- II. ATS-79P63R
- III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS RT-3988

Office of Technical Services

63-12286

Kukhtin, V. A. and Orekhova, K. M.  
SOME NEW TYPES OF THE ARBUZOV REARRANGEMENT. [1962] 6p.  
Order from ATS \$8.90

ATS-80P63R

Trans. of mono. Khim[ia] i Primenenie Fosfororganicheskikh Soedin[enii] (Akad. Nauk SSSR, Kazansk Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962, p. 88-93.  
A complete trans. of mono. is available from OTS or SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62 [1160]p.

DESCRIPTORS: \*Phosphonic acids, \*Esters, Synthesis.

(Chemistry--Organic, FI, v. 9, no. 1)

I. Title: Arbuzov rearrangement

I. Kukhtin, V. A.

II. Orekhova, K. M.

III. ATS-80P63R

IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

63-12284

Razumov, A. I. and Bankovskaya, N. N.  
SOME REACTIONS OF THE INTERMEDIATE PRODUCTS OF THE ARBUZOV REARRANGEMENT. [1962]

6p.

Order from ATS \$7.75

ATS-81P63R

Trans. of mono. Khim[lya] i Primenenie Fosfor-organ[icheskikh] Soedin[eni] (Akad. Nauk SSSR, Kazansk Filial, Ir. Konf. (no. 2) 1959) [Moscow] 1962, p. 94-98.  
A complete trans. of mono. is available from OTS or SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62[1160]p.

DESCRIPTORS: \*Phosphonic acids, \*Esters, Synthesis, Chemical reactions.

(Chemistry--Organic, TT, v. 9, no. 1)

- I. Title: Arbuzov rearrangement
- I. Razumov, A. I.
- II. Bankovskaya, N. N.
- III. ATS-81P63R
- IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

63-12471

Abramov, V. S.  
STRUCTURE AND REACTIVITY OF DIALKYL  
PHOSPHONATES. [1962] 8p.  
Order from ATS \$10.75

ATS-82P63R

Trans. of mono. Khim[ya] i Primenenie Fosfororgan-  
[icheskikh] Soedin[enii] (Akad. Nauk SSSR, Kazansk.  
Filial), tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 105-111.

A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62  
[1160]p.

DESCRIPTORS: \*Phosphorus compounds, \*Alkyl radi-  
cals, Molecular structure, Chemical reactions.

(Chemistry--Organic, TT, v. 9, no. 5)

I. Abramov, V. S.  
II. ATS-82P63R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS AT-3992

Office of Technical Services

Petrov, K. A., Bilznyuk, N. K., and Mansurov,  
I. Yu.  
REACTIONS OF ACID PHOSPHITES, THIOPHOSPHITES,  
PHOSPHONATES AND DIALKYLPHOSPHINE OXIDES  
WITH DISULFIDES. [1962] Sp.                      ATS-19P63R  
Order from ATS \$8.50

Trans. of mono. Khim[iya] i Prirodnye Fosfor-  
organ[icheski] Soedin[eni] (Akad. Nauk SSSR,  
Kazansk. Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 121-124.  
A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62 [1160]p.

DESCRIPTORS: \*Phosphorus compounds, \*Phosphites,  
Thio radicals, \*Phosphonic acids, Salts, \*Phosphine  
oxides, Alkyl radicals, \*Sulfides, Chemical reactions.

(Chemistry, TT, v. 9, no. 7)

62-34235

I. Petrov, K. A.  
II. Bilznyuk, N. K.  
III. Mansurov, I. Yu.  
IV. ATS-19P63R  
V. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Tsvetkov, E. N.  
ESTERS OF CYCLOPENTADIENYL-, 1-INDENYL-,  
AND 9-FLUORENYL-PHOSPHONOUS ACIDS. [1962] 6p.  
ATS-87P63R  
Order from ATS \$7.25

Trans. of mono. Khim[ya] i Primenenie Fosfororgan-  
[icheskikh] Soedinenii [Akad. Nauk SSSR, Kazansk.  
Filial, tr. Konf. (no. 2) 1959] [Moscow] 1962,  
p. 156-160.

A complete trans. of mono. is available from OTS or  
SLA \$36.50 as 62-33349. JPRS-15432, 25 Sep 62  
[1160]p.

DESCRIPTORS: \*Phosphorus compounds, Acids, Esters.

(Chemistry--Organic, TT, v. 9, no. 5)

63-12465

- I. Tsvetkov, E. N.
- II. ATS-87P63R
- III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS NJ-3996

Office of Technical Services

Kirsanov, A. V., Levchenko, E. S. and others.  
PHOSPHORUS ISOCYANATES. [1962] 8p.  
Order from ATS \$9.00                      ATS-23P66R

Trans. of mono. Khimiya i Primenenie Fosfororganicheskikh Soedinenij (Akad. Nauk SSSR, Kazansk. Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962.

p. 168-174.

A complete trans. of mono. is available from OTS or SIA \$36.50 as 62-33349, JPRS-15432, 25 Sep 62 [1160]p.

DESCRIPTORS: \*Phosphorus compounds, Cyanates.  
\*Isocyanates, Organic compounds, Chemistry, Chemical reactions.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12615

- I. Kirsanov, A. V.
- II. Levchenko, E. S.
- III. ATS-23P66R
- IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

63-12461

Kolesnikov, G. S., Rodionova, E. F., and Fedorova, L. S.  
SYNTHESIS, POLYMERIZATION, AND COPOLYMERIZATION OF ESTERS OF VINYLPHOSPHONIC ACID.  
[1962] 8p.  
Order from ATS \$9.85

ATS-02P66R

Trans. of mono. Khimiya i Primenenie Fosfororganicheskikh Soedinenii (Akad. Nauk SSSR, Kazansk. Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 255-262.

A complete trans. of mono. is available from OTS or SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62 [1160]p.

DESCRIPTORS: \*Phosphonic acids, \*Vinyl radicals, Synthesis, Polymerization.

(Chemistry--Organic, TT, v. 9, no. 5)

- I. Kolesnikov, G. S.
- II. Rodionova, E. F.
- III. Fedorova, L. S.
- IV. ATS-02P66R
- V. Associated Technical Services, Inc., East Orange, N. J.

ATS NJ-4001

Office of Technical Services

Andreeva, M. A., Gribova, I. A. and others.  
SOME ROUTES FOR THE SYNTHESIS OF NEW OR-  
GANOPHOSPHORUS MONOMERS AND POLYMERS.  
[1962] 9p.

Order from ATS \$12.00

ATS-97P63R

Trans. of mono. Khim[lya] i Primenele Postor-  
organ[icheskih] Soedin[eni] (Akad. Nauk SSSR,  
Kazansk. Filial, tr. Kodf. (no. 2) 1959) (Moscow)  
1962, p. 263-271.

A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62 (1160)p.

DESCRIPTORS: \*Organic compounds, \*Phosphorus  
compounds, \*Polymers, Synthesis.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12639

- I. Andreeva, M. A.
- II. Gribova, I. A.
- III. ATS-97P63R
- IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Lutsenko, I. F., Kraits, Z. S., and Bokovoi, A. P.  
VINYL ESTERS OF PHOSPHORUS ACIDS. [1962] 6p.  
Order from ATS \$8.00

ATS-02P64R

Trans. of mono. Khim[lya] i Primenenie Fosfor-  
organ[icheski] Soedin[enii] (Akad. Nauk SSSR,  
Kazansk. Filial, tr. Kont. (no. 2) 1959) [Moscow]  
1962, p. 305-309.

A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62  
[1160]p.

DESCRIPTORS: \*Phosphorus acids, \*Vinyl radicals,  
\*Esters, Organic compounds, Phosphorus compounds.

(Chemistry--Organic, TT, γ. 9, no. 10)

63-12618

- I. Lutsenko, I. F.
- II. Kraits, Z. S.
- III. Bokovoi, A. P.
- IV. ATS-02P64R
- V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS RT-4008

Office of Technical Services

Kreshkov, A. P. and Karateev, D. A.  
 A STUDY OF REACTIONS OF TETRAALKOXY-SILANES  
 AND ALKYL(ARYL)ALKOXY-SILANES WITH PHOS-  
 PHORIC ANHYDRIDE AND SOME PHOSPHORUS ACID  
 CHLORIDES. [1962] 5p.  
 Order from ATS \$6.50

ATS-01P66R

Trans. of mono. Khimiya i Prikladnye Fosfororgan-  
[i]cheakikh Soedinenii (Akad. Nauk SSSR, Kazansk.  
 Filial, tr. Kont. (no. 2) 1959) [Moscow] 1962,  
 p. 324-328.

A complete trans. of mono. is available from OTS or  
 SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62 [1160]p.

DESCRIPTORS: \*Phosphorus compounds, Anhydrides,  
 \*Phosphorus acids, Chlorides, \*Silanes, Alkoxy acids,  
 Chemical reactions.

(Chemistry--Organic, TT, v. 9, no. 5)

63-12463

I. Kreshkov, A. P.  
 II. Karateev, D. A.  
 III. ATS-01P66R  
 IV. Associated Technical  
 Services, Inc.,  
 East Orange, N. J.

ATS RJ-4009

Office of Technical Services

Spyau, E. I.  
 THE EFFECT OF SOME PHOSPHORORGANIC INSECTICIDES ON THE HIGHER NERVOUS SYSTEM AND ON THE ACTIVITY OF CHOLINESTERASE: [WITH DISCUSSIONS] (Deistvie Nekotorykh Fosfororganicheskikh Insektitsidov na Vysshuyu Deyatel'nost' i Aktivnost' Kholinesterazy) tr. by V. A. Solodukhin. [17]p. (foreign text included) 7 refs. [CSIRO] Trans. no. 5924.  
 Order from OTS or SLA \$1.60

62-33097

Trans. of mono. Khimiya i Primenenie Fosfororg. Soedinenii [sic] n.p., B.G., p. 336-343.

DESCRIPTORS: \*Phosphorus compounds, Organic compounds, \*Insecticides, \*Nervous system, \*Cholinesterase, Enzymes, \*Poisoning.

(Biological Sciences--Toxicology, TT, v. 10, no. 3)

62-33097

- I. Spyau, E. I.
- II. CSIRO Trans-5924
- III. Commonwealth Scientific and Industrial Research Organisation (Australia)

Office of Technical Services

Sanin, P. I., Shepeleva, E. S., and Kleimenov, B. V.  
ORGANOPHOSPHORUS COMPOUNDS CONTAINING THE  
TRICHLOROMETHYL GROUP AS ADDITIVES TO  
LUBRICATING OILS. [1962] 7p.  
Order from ATS \$8.00

ATS-00P66R

Trans. of mono. Khimiya i Primeneniye Fosfororgan-  
icheskikh Soedinenii (Akad. Nauk SSSR, Kazansk.  
Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 389-394.

A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62  
[1160]p.

DESCRIPTORS: \*Lubricants, Oils, \*Additives, \*Phos-  
phorus compounds, Methyl radicals, Chlorides.

(Materials--Lubricants, TT, v. 9, no. 5)

63-12460

- I. Sanin, P. I.
- II. Shepeleva, E. S.
- III. Kleimenov, B. V.
- IV. ATS-00P66R
- V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS RJ-11011

Office of Technical Services

Frankov, I. A.  
COMPARATIVE DATA ON THE ANTICHOLINESTER-  
ASE ACTIVITY AND TOXICITY OF SOME ORGAN-  
OPHOSPHORUS COMPOUNDS. [1962] 11p.  
Order from ATS \$12.50

ATS-89P65R

Trans. of mono. khim[ya] i primeneniye fosfororgan-  
icheskikh soedinenii. Izd. Nauk SSSR, Leningrad.  
Filial, tr. Konf. (no. 2) 1959 [Moscow] 1962, p. 43  
p. 443-452.

A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62 [1160]p.

DESCRIPTORS: Organic compounds, \*Phosphorus  
compounds, \*Cholinesterase, Toxicity.

(Chemistry--Organic, TT, v. 9, no. 7)

63-12648

I. Frankov, I. A.  
II. ATS-89P65R  
III. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Zaugol'nikov, S. D.  
THE TOXICOLOGY OF ORGANOPHOSPHORUS COM-  
POUNDS. [1962] 5p.  
Order from ATS \$9.75                      ATS-08P64R

Trans. of mono. Khim[lya] i Primenenie Fosfor-  
organ[icheski]kh Soedin[enii] (Akad. Nauk SSSR, Kazansk  
Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 480-484.  
A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62[1160]p.

DESCRIPTORS: \*Organic compounds, \*Phosphorus com-  
pounds, \*Toxicity.

(Biological Sciences--Toxicology, TT, v. 9, no. 2)

62-34170

- I. Zaugol'nikov, S. C.
- II. ATS-0864R
- III. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Chemistry of Synthetic Resins, by I. P. Losev,  
G. S. Petrov, ~~5250~~

RUSSIAN, bk, Khimiya iskusstvennykh smol, publ by  
State Publ House of Sci-Tech Literature on Chemistry,  
1951, 432 pp.

Treasure Island Bib Rpt  
Air 68-Phase II

Scientific - Chemistry

Apr 54 CTS

11,457

Chemical Current Sources; Manual,  
by Martin Avetisovich Dasoyan.  
RUSSIAN, bk, Khimicheskiye Istochniki  
Toka; Spravochnoye Posobiye, Moscow,  
1961.

~~TTD-IT-65-454~~

\*TTD-IT-66-7

Sci - Chem  
Oct 65

The Effect of Isotopy on the Rate of Chemical  
Reactions, by A. I. Brodskiy, 4 pp.

RUSSIAN, bk, Khimiya Isotopov, 1952, Encl to SIR-  
2635, AFODH-1A1.

AID/Apr 57

Sci - Chemistry

50,771

AUG 57

Surface Catalysis: Ortho-Para Conversions, by  
A. I. Brodskiy, 5 PP.

RUSSIAN, bk, Khimiya Isotopov, 1953, pp 282-284,  
Encl to ER-2652, AFOIN-1A1.

AID/Apr 57

Sci - Chemistry  
Aug 57

50,770

The Production of Phosponitrile  
Chloride, by S. M. Zhivukhin.  
RUSSIAN, per, Khimicheskaya  
Promyshlennost, No 1, 1962, pp 19-23  
NTC 72-11377-07A

June 72

The Preparation of the Hydroperoxides  
of Alkylaromatic Hydrocarbons and Their  
Initiating Properties in the Copoly-  
merization of Butadiene With Styrene,  
by S. V. Zavgorodnii.  
RUSSIAN, per, Khimicheskaya Promyshlennost,  
Vol 38, No 3, 1962, pp 131-135.  
HTC 72-10843-07C

Apr 72

Wear-Resistant Catalyst for the  
Conversion of Methanol Into Formaldehyde  
in a Fluidized Bed, by I. P. Mukhlenov.  
RUSSIAN, per, Khimicheskaya Promyshlennost,  
No 11, 1963, pp 847-849  
NTC 72-11607-07A

June 72

An Automatic System for Measuring the Electrical  
Conductivity of Solutions Used in the Manufacture  
of Alumina, by R. B. Popov.  
RUSSIAN, per, Khim Prom, Inform Nauk-tekhn Zh,  
No 2, 1964, pp 45-47.  
ATS-UJ-5271

Sci-Materials  
Mar 70

403,218

Investigations into Ammonia-Carbon Dioxide  
Equilibria over Aqueous Boron-Glycerin Solutions,  
by V. M. Kozin, et al.  
RUSSIAN, per, Khimichna Promyslovist Ukraini,  
No 2, 1963, pp 10-14.  
NTC 71-13917-07D

Feb 72

Smelting of Copper Concentrates in a  
Horizontal Cyclone Furnace, by  
V. Velev.  
RUSSIAN, per, Khimiko-Tekhnologicheskii  
Institut. Sofia. Godishnik, Vol 11,  
No 3, 1964, pp 103-109.  
NTC 72-10214-07A

Apr 72

113 (RFP-Trans-92) THERMODYNAMIC STUDY OF BI-  
NARY SYSTEMS FORMED BY FERROUS AND FERRIC CHLORIDE  
WITH THE CHLORIDES OF A FEW RARE EARTH ELEMENTS.  
Novikov, G. I.; Baev, A. K.; Polyachenok, O. G. Translated for  
Dow Chemical Co., Rocky Flats Div., from pp 63-7 of Khimiya  
Redkikh Elementov, Izd-vo Leningrad Univ., Leningrad, 1964.  
7p. Dep. NTIS.

Chemistry (physical); translations 07D

MN-4 P NSA

Chemistry of Lithium and its Compounds. Chapter III.  
Physico-Chemical Properties of Lithium, by Yu. I.  
Ostrovskii, et al.

RUSSIAN, par, Khimiya i Tekhnologiya, 1960,  
no 47-54.

AEC Tr 4940

Sci - Chem

232,236

May 63

The Chemistry and Technology of High  
Explosives, by Ye. Yu. Orlova, 752 pp.

RUSSIAN, bk, Khimiya i Tekhnologiya  
Brizantnykh Vzryvchatykh Veshchestv, 1960,  
397 pp. 9670777-V, 9670776-V, 9670774-V

FTD-MCL-844/1

Sci - Chem

Aug 61

164,965

Chemistry and Technology of Combustible Shales  
and Their Products, by A. S. Sinel'nikov.

RUSSIAN, bk, Khimiya i Tekhnologiya Goryuchikh  
Slantsev i Produktov ikh Pererabotki, Leningrad, No-6  
1958.

OTS 61-11434  
PST No 470

.26,954

Apr 63

The Treatment of Water Resulting From  
Hydrogenation of ~~PT~~ Tar Produced by Semi-  
Coking, by G. N. Bazradetskiy, O. V.  
Nefedyeva, 6 pp.

RUSSIAN, monograph, Khimiya i Tekhnologiya  
Iskustvennogo Zhidkogo Topliva i Gaza,  
1954, Encl to Ir-1077-55. CIA D 322487

AF 692343

USSR  
Sci - Chemistry, Fuels

30,936

Kvitkovskii, L. N. and Gushetskaya, E. V.  
DETERMINATION OF n-PARAFFIN HYDROCARBONS  
IN GASOLINES WITH THE HELP OF MOLECULAR  
SIEVES. [1963] [7] p. 7 refs.  
Order from OTS or SLA \$1.10

63-18415

Trans. of Khim[iya] i Tekhnologiya i Masel (USSR)  
1962 [v. 7] no. 3, p. 61-64.

DESCRIPTORS: \*Gasoline, \*Alkanes, Organolites,  
Absorbents, Quantitative analysis.

(Materials--Fuels, TT, v. 10, no. 9)

63-18415

I. Kvitkovskii, L. N.  
II. Gushetskaya, E. V.

Office of Technical Services

Inhibitive Reaction in Processes of Polymerisation at  
High Temperatures and in Polymers With Conjugate Bonds,  
V. M. Semenov, 37 pp

RUSSIAN, *Uchenye Zapiski Khimicheskogo Nauchnogo Instituta*, Vol IV, No 7-8,  
1960, pp 196-221. 9076908

NIH 5-1-61

11 - Med  
11. 61

159,538

Berlin, A. A.  
POLYMERS WITH A SYSTEM OF CONJUGATED  
BONDS AND HETEROATOMS IN THE CONJUGATED  
CHAIN. [1961] [44]p. 42 refs.  
Order from OTS or SLA \$4.60

61-16598

Trans. of Khimiya i Tekhnologiya Polimerov (USSR)  
1960 [v. 4] no. 7/8, p. 139-157.

DESCRIPTORS: \*Polymers, Synthesis, Physical  
properties, \*Vinyl radicals, \*Acetylenes, Polymeri-  
zation.

A survey of Soviet and non-Soviet literature

(Chemistry--Organic, TT, v. 6, no. 10)

61-16598

I. Berlin, A. A.

ATS RJ-2831

195693

Office of Technical Services

Rogovin, Z. A.  
NEW METHODS FOR MODIFYING THE PROPERTIES  
OF CELLULOSE AND OTHER POLYSACCHARIDES.  
[1961] 25p. 32 refs.  
Order from OTS of SLA \$2.60

61-16599

Trans. of Khimiya i Tekhnologiya Polimerov (USSR)  
1960, v. 4, no. 7/8, p. 174-186.

DESCRIPTORS: \*Cellulose, \*Saccharides, \*Polymers,  
Synthesis, Copolymerization, Cellulose esters, Cellu-  
lose chemistry, Physical properties.

(Chemistry--Organic, TT, v. 6, no. 10)

61-16599

1. Title: Graft copolymers
2. Title: Block copolymers
1. Rogovin, Z. A.

16599

Office of Technical Services

The Chemistry and Technology of Tobacco, by A. A.  
Shukh, 768 pp.

Vol III,

RUSSIAN, Nauchnaya i Tekhnologiya Tabaka, 1959.

OTS 61-31003  
FL-480

Sci - Chem

Jan 62

PST 96

178, 50P

Khimi Tekh Top

Methods of Utilizing Atomic Energy in the Chemical  
Technology of Petroleum, by Yu. A. Kolbanovskiy,  
K. P. Lavrovskiy, 16 pp.

RUSSIAN, no per, Khim i Tekh Tom. Moscow, No 1, 1956,  
pp 1-17, Encl to IR 1019-57, AF01N-1A1.

AF 1071265

Sci - Chemistry, fuels  
Feb 1957 CTS

44,099

The Nature of Aromatics and Tars Contained in  
High-Boiling Petroleum Fractions, by L. G.  
Zherdeva, 23 pp.

RUSSIAN, no per, Khim i Tekh Toplisa, No 1, 1956,  
pp 17-26, Encl to IR-1766-56, AFOIS-1A1.

AF 1041391

USSR  
Sci - Fuels  
Jan 57 CTS

42,885-

Petroleum-Derived Stocks for the Production of  
Synthetic Fibers, by A. D. Sulimov, et al, 21 pp.

RUSSIAN, per, Khim i Tekh, No 1, Moscow, 1956,  
pp 33-43, Encl to IR ~~IR~~ 1912-56, APOIN-1A1.

AF 1068462

USSR  
Encl  
Sci - Fuels, Engr  
Feb 1957 EX CTS

44,073

Lubricating Oils From Sulfurous Eastern Crudes, by  
L. G. Zherdeva, et al, 15 pp.

RUSSIAN, par. Khim i Tekh Top, No 1, 1956,  
pp 50-57, Encl to IR-1875-56, AFOIN-1A1.

AF 1052642

42,625

Sci - Fuels  
Jan 57 OTS

Antiwear Properties of Petroleum Oils, by G. V.  
Vinogradov, et al.

RUSSIAN, per, Khim i Tekhnol Topliwa i Masel, Vol I,  
No 1, 1956, pp 61-73.

ATS RJ-1201

Sci - Chem  
Apr 60

114,519

New Research on the Composition of Crude Oils and  
Petroleum Products, ~~EX~~ <sup>A</sup> pp.

RUSSIAN, per, Khim i Tekh Topliva, No 2, 1956, pp 1-8,  
Encl to IR\_1872-56.

AID

46,543

Sci - Fuels  
April 57 CTS

Individual Hydrocarbons in a Gasoline Fraction  
From West Nebit-Dag Petroleum (Akchegyi  
Stratum), by A. V. Topchiyev, 8 pp.

RUSSIAN, no par, Khim i Tekh Tekh, No 2,  
1956, pp 9-13, Engl to IR-1847-56, AFOIN-1A1.

AF 1049038

Sci - Fuels  
Jan 57 CCS

43,054

The Relative Anti-Oxidative and Other  
Chemophysical Properties of Naphthenic  
Hydrocarbons Contained in High Boiling  
Petroleum Fractions, by I. G. Zhardev,  
V. A. Potanin, B. B. Krol', 14 pp.

RUSSIAN, per, Khim i Tekh Top, No 2, 1956,  
pp 13-23, Encl to IR-1852-56, AFOIM-1A1.

AF 1054009

Sci - Fuels  
Jan 57 OIS

42,626

The Composition of Gasoline From Zhirnoye Crudes,  
9 pp.

RUSSIAN, per, Khim i Tekh Top, No 2, 1956, pp23-26,  
Encl to IR-1871-56, ANOIN, IAI.

AID/Jan 57

Sci - Chem, Fuels

50,063

Composition and Properties of Synthesis Products  
Obtained From Carbon Monoxide and Hydrogen  
Over an Iron Catalyst, Part I, by D. H.  
Shelton.

KUNSIAN, per, Khim i Tekh Top i Msel, No  
2, 1956, pp 35-39.

Dept of Int  
US Eur of Miss  
Central Exptl Sta  
Pittsburgh, Pa. Ro 406

Sci - Chem

187,726

May 59

The Growth of the Soviet Fuel Industry, 12 pp.

<sup>MOBILE</sup>  
RUSSIAN, ~~by~~ Khin i Tekh Topliva, No 3, 1956, pp 1-7.  
B Encl to SIR-2510.

AID

46,548

Sci - Fuels  
Apr 57 CTB

The Catalytic Activity of Some Natural Siliceous Minerals and Particularly of Kieselguhr, Used as a Catalyst in the Synthesis of Hydrocarbons From Carbon Monoxide and Hydrogen, by A. N. Bashkirov, F. I. Novak, S. M. Loktev, V. V. Kanzolkin, 6 pp.

RUSSIAN, no per, Khim i Tekh Topliva, No 3, 1956, pp 38-43, Encl to IR-1906-56, AFOIN-1A1.

AF 1068459 43,446

Sci - Fuels  
Feb 1957 CTS/dex

On the Properties of Paraffin-Base Oils at Low  
Temperatures, by G. V. Vinogradov, V. G. Lebedev.  
UNCL

RUSSIAN, per, Khim i Tekh Topliva, No 3, 1956,  
pp 54-58.

*7000 215 2000 0000*  
The Thornton Research Centre  
1023 OT/3426

Sci - ~~Hydrocar~~ Fuels  
Jun 59

*89,972*

Determination of the Amounts of Circulating  
Catalyst in Cracking Systems With Moving Powder  
Catalysts, by N. M. Indinkov

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 1-6.

Tech and Chem Tr  
\$55.00

40,589

Sci - Fuels  
Nov 56 CTS

The Study of the Synthesis of Hydrocarbons From  
Carbon Monoxide and Hydrogen Over a Kieselguhr  
Catalyst, by A. N. Bashkircov, S. M. Loktev, 5 pp.

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 7-12, Encl to IR-1906-56, AFOIN-1A1.

*John Casper Jr - 60.00*

AF 1068459

*43,448*

Sci - Fuels  
Feb 1957 CTB/dex

The Relation of the Physical-Chemical Properties  
of Synthetic Oils and the Structure of the  
Original Starting Hydrocarbons, by M. G.  
Rudenko

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 13-19.

AKC/NPT-362  
Tech and Chem Tr  
\$60.00

40,587

FTS RJ-1107

Sci - Fuels  
Nov 56 CTS

Some Characteristics of the Disintegration of  
(Stano) Coal in Relation to the Petrographic  
Composition, by T. A. Bukharenko

RUSSIAN, see per, Khim i Tekh Topliva, No 4, 1956,  
pp 20-30.

Tech and Com Tr

\$105.00

40,588

Sci - Fuels  
Nov 56 CTS

Study of the Knock Stability of Automobile  
Gasoline on the Motor ZIS-120, by N. F. Kaibash

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 30-36.

Tech and Comm Tr  
\$60.00

Sci - Fuels  
Nov 56 CTS

40,585

Study of the Mechanical Action of Anti-Corrosion  
Admixtures to Oils by the Marked Atom Method,  
by Yu. S. Zaslavskiy

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 37-49.

ATS/RJ-724  
Tech and Chem Tr  
\$120.00

Sci - Fuels  
Nov 56 CTS

40,586  
Harry Tr 1518/NRH623  
SLA R-2000

Study of the Volatility Process of Heavy Cylinder  
Oils, by A. I. Piskunova

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 50-55.

Tech and Chem Tr  
\$60.00

*40,583*

Sci - Fuels  
Nov 56 CTS

The Chemical Nature and the Action of Aluminum-Chromium Catalysts, by L. I. Piguzova

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956, pp 56-59.

	Tech and Comm Tr	
	\$30.00	40,584
Sci - Fuels		
Nov 56 CTS	ATS/RJ-704	

Sludge Formation in Automobile Carburetor of  
Meters, by A. B. Vipper

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 59-62.

Tech and Comm Tr  
\$40.00

Sci - Fuels  
Nov 56 CTS

*140,581*

The Effect of Water on the Stability of Admixtures  
in Motor Oils, by V. I. Sharapov

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 63,64.

Tech and Comm Tr  
\$20.00

Sci - Fuels  
Nov 56 CTS

40,582

To the Problem at the Consumption of Heat at  
the Distillation of Petroleum, by P. M. Lozachev

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 65-68.

Tech and Comm Tr  
\$35.00

Sci - Fuels  
Nov 56 CTS

40,579

Determination of Sodium and Potassium in  
Catalyst by the Flame Method, by S. N.  
Alexandrov

RUSSIAN, no per, Khim i Tekh Topliva, No 4, 1956,  
pp 68-72.

Tech and Chem Tr  
\$40.00

Sci - Fuels  
Nov 56 CTS

40,580

The Thermal Stability of Sulfur Compounds of Krybyshev  
Oblast Crudes, by Ye. I. Skripnik, V. I. Isafulyants,  
I. K. Shtov, 12 pp.

RUSSIAN, per, Khim i Tekh Topliva, Moscow, No 5, 1956,  
pp 1-7.

ATIC F-TS-9068/V

Sci - Fuels  
Mar 1957 CTS

45,052

The Composition of Synthetic Hydrocarbons  
Produced From CO and H<sub>2</sub> Over Kieselguhr  
Catalysts, by A. N. Bashkirov, S. M. Loktev,  
M. I. Khotenskaya, 16 pp.

RUSSIAN, no per, ~~Khim i Tekh Topliva~~, 1956, No 5,  
pp 18-22, Encl to IR-1906-56, AFOIN-1A1.

AF 1068459

Sci - Fuels  
Feb 1957 CTS/dex

43,447

Relationship Between the Physicochemical Properties  
of Synthetic Oils and the Structure of the Original  
Hydrocarbons. Part 2, by M. G. Rudenko, V. H.  
Gromova.

RUSSIAN, no per, Khim i Tekh Topliva, No 5, 1956,  
pp 43-47.

Assoc Tech Sv  
Tr RJ-578  
\$4.95

52,233

Sci - Chem  
Sep 57

Vinogradov, G. V., Bezborod'ko, M. D. and others  
ORGANOPHOSPHORUS ANTI-WEAR ADDITIVES FOR  
LUBRICATING OILS. [1961] [14]p. 1 ref. [DSIR  
NLL]M.4668.

Order from OTS or SLA \$1.60

62-19125

Trans. of Khimiya i Tekhnologiya Topliv [i Masel]  
(USSR) 1956 [v. 1] no. 5, p. 47-59.

DESCRIPTORS: \*Lubrication, \*Oils, Additives,  
Friction, Organic compounds, Phosphorus compounds.

The distinct functional role of phosphorus and sulfur in  
thio-organophosphorus oil additives during the friction  
of steel against steel was established.

(Materials--Lubricants, TT, v. 7, no. 11)

62-19125

I. Vinogradov, G. V.  
II. Bezborod'ko, M. D.  
III. DSIR NLL M.4668

Office of Technical Services

The Effect of Metals on the Lacquer-Forming  
Properties of Oils, by K. K. Papok, B. S. Zuseva.

RUSSIAN, no per, Khim i Tekh Topliva, No 5, 1956,  
pp 64-69.

Assoc Tech Sv

Tr RJ-577

\$7.80      52,231

Sci - Chem; Fuels

Sep 57

Organophosphorus Antiwear Additives for Lubricating Oils,  
by G. V. Vinogradov, et al.

RUSSIAN, per, Khim i Tekhnol Topliva i Masel, Vol I,  
No 5, 1956m, pp 47-59. 9094367

1144 1145662  
ATS RJ-1200

Sci - Chem  
Apr 60

DSI 721  
SLA TT 64-20203  
114, 518

Liquid Normal Paraffins as a Raw Material for the  
Synthesis of Higher Fatty Acids, by V. K. Tsyskovskiy,  
Ts. N. Shcheglova, E. M. Nebylova, 8 pp.

RUSSIAN, per, Khim, i Teknol Topliva, No 6, 1956,  
pp 9-14.

Sci - Chemistry  
Oct 57

Associated Tech Sv

Tf 69H11R

ATS/RJ-716

54,484

Investigation of the Mechanism of Action of  
Organothiophosphorus Oil Additives by Means of  
Radioactive Tracers, by G. V. Vinogradov,  
M. M. Kisakov, P. I. Sanin, 7 pp.

RUSSIAN, per, Khim i Tekhnol Topliva, No 6,  
1956, pp 14-20.

Asso Tech Ser 70811R

ATS/RJ-723

Jul 58

69, 945

Splitting of Humic Acids by Metallic Sodium in  
Liquid Ammonia, by T. A. Kukhareenko, T. E.  
Vvedenskaya.

RUSSIAN, per, Khim i Tekh Topliva, No 6, 1956,  
pp 25-34.

MLL M. 3599

Sci - Chem

Jul 62

207,788

The Effect of the Chemical Nature and Composition  
of Cracking Catalysts on the Stability of Their  
Activity, by L. I. Piguzova.

RUSSIAN, no per, Khim i Tekh Topliva, No 6,  
1956, pp 43-54.

Assoc Tech Sv

RJ-573

\$15.85

52,230

Sci - Chem; Fuels

Sep 57

Methods of Determining the Strength of Spheroidal  
Silica-Alumina Catalysts, by A. A. Proshkin,  
4 pp.

RUSSIAN, per, Khim i Tekhnol Topliva, No 6, 1956,  
pp 57-60.

Assoc Tech Serv 71H11R  
ATS/RJ-703

Jul 58

69,993

The Problems of Chemical Kinetics in the Industry  
(Chemical Processes, Synthesis), by D. I. Orochko.  
RUSSIAN, no par, Khim i Tekh Topliva, No 8, 1956,  
pp 1-8.

Tech and Comm

\$65.00

48,909

Sci - Chemistry  
Feb 1957 CTS/dex

Hydrogenation of Aldehydes (C<sub>6</sub>-C<sub>8</sub>) in Alcohol, by  
S. Z. Levin.

RUSSIAN, no per, Khim i Tekh Topliva, No 8, 1956,  
pp 8-12.

Tech and Comm

\$35.00

43,910

Sci - Chemistry  
Feb 1957 CTS/dex

Study of Kerosine-Gas Oil Fraction 200-350°C of the  
Romashkinakiy Petroleum, by V. G. Nikolayeva.

RUSSIAN, no per, Khim i Tekh Topliva, No 8, 1956,  
pp 12-18.

Tech and Comm

\$40.00

43,911

Sci - Fuels  
Feb 1957 CTS/dex

also AF 1076907

Method of the Adsorption Analysis and Separation of  
Hydrocarbon Gases, by A. M. Brodskiy.

RUSSIAN, no per, Khim i Tekh Topliva, No 8, 1956,  
pp 18-22.

Tech and Comm

\$40.00

43,912

Sci - Chemistry  
Feb 1957 CRS/dex

The Influence of Various Factors on the Yield of  
Products of Thermal Cracking, by M. D. Tilicheyev

RUSSIAN, no per, Khim i Tekh Topliva, No 8, 1956,  
pp23-31.

HF 1094447  
Tech and Comm

\$60.00

43,915-

Sci - Fuels  
Feb 1957 CTS/dex

In Influence of Caustic Admixtures on the Activity  
and Selectivity of Iron-Copper Catalysts, by B. R.  
Raynshteyn.

RUSSIAN, no per, Khim i Tekh Topliva, No 8, 1956,  
pp 31-35.

*Handwritten notes:*  
Chemistry  
1956

HTS 10-1174

Tech and Comm

\$35.00

Sci - Chemistry  
Feb 1957/ CTS/dex

43,916

Optic Properties of Solutions of Humates and <sup>of</sup> Ashes  
of Humic Acids, by E. M. Aleksandrova.

RUSSIAN, no per, Khim i Tekh Topliva, No 8, 1956,  
pp 36-46.

Tech and Comm

100 (100) 11457

\$65.00

Sci - Chemistry  
Feb 1957 CTS/dex

43,913

Stoichiometric <sup>g</sup> Analysis of the Combustion and  
Gasification Process of Solid Fuels, by B. M.  
Derman.

RUSSIAN, no per, Khim i Tekh Topliva, No 8,  
1956, pp 46-54.

Tech and Comm

\$50.00

43,914

Sci - Fuels  
Feb 1957 CTS/dex